#### FEDERAL COMMUNICATIONS COMMISSION

VFA **CLASS OF STATION** The following application is submitted for action by the Chief, Broadcast Bureau. FILE NUMBER APPLICANT AND LOCATION NATURE OF APPLICATION CALL **BPH** -910225MI NEW DIANE K. HITT CP FOR NEW FM ON: FREQUENCY: 93.5 MMHZ., ERP: 3.0 KW H&V, N/M 93.5MHZ ROSAMOND HAAT: 91.4 METERS H&V. 34 55 11 LICENSE EXPIRATION DATE CHIEF, LICENSE DIVISION RECOMMENDATION: GRANT( ) CONSTRUCTION DATES, START END CONTESTED ( ) UNCONTESTED ( )

**APPROVED** 

FOR CHIEF, BROADCAST BUREAU

ORIGINAL

LAW OFFICES OF

## BOOTH, FRERET & IMLAY

SUITE 150

ROBERT M. BOOTH, JR. (1911-1981) JULIAN P. FRERET CHRISTOPHER D. IMLAY 1920 N STREET, N.W. WASHINGTON, D.C. 20036

February 25, 1991

TELEPHONE
(202) 296-9100
TELECOPIER
(202) 293-1319

Ms. Donna R. Searcy Secretary Federal Communications Commission 1919 M Street, N. W., Room 222 Washington, D. C. 20554

In re: Diane K. Hitt; Application for New FM Broadcast Station, Rosamond, CA.

Dear Ms. Searcy:

Enclosed herewith is an original and two copies of FCC Form 301, requesting authority by Diane K. Hitt to construct a new FM broadcast station at Rosamond, CA.

The required filing fee in the sum of \$2,030.00 is enclosed herewith by check.

Should any question arise concerning this application, kindly communicate with the undersigned.

Yours very truly,

Julian P. Freret

JPF:mf

Enclosures

Approved by OMB 3060-0440 Expires 12/31/90

#### FEDERAL COMMUNICATIONS COMMISSION

# FEE PROCESSING FORM

FOR FOC USE CHLY

EGMMLLON FEB 25 1991

02-16-F1 8195533 003

Please read instructions on back of this form before completing it. Section I MUST be completed. \*\*Pappying for concurrent actions which require you to list more than one Fee Type Code, you must also complete Section II. This form must accompany all payments. Only one Fee Processing Form may be submitted per application or filing. Please type or print legibly. All required blocks must be completed or application/filing will be returned without action.

SECTION I		
APPLICANT NAME (Last, first, middle init)	al)	<del>an anderson</del> de la companya della companya de la companya della c
HITT, DIANE K.	<del></del>	
MAILING ADDRESS (Line 1) (Maximum 35	oberenters - refer to Insti	viction (2) on reverse of form)
	Cligitacters - refer to mist	uction (2) on reverse or round
18515 East Avenue H-6	· · · · · · · · · · · · · · · · · · ·	
MAILING ADDRESS (Line 2) (if required) (	(Maximum 35 characters)	
CITY		
Lancaster		
STATE OR COUNTRY (if foreign address)	ZIP CODE	CALL SIGN OR OTHER FCC IDENTIFIER (if applicable)
CA	93535	New Application, Rosamond, CA
		applying for. Fee Type Codes may be found in FCC
		or in Column (C) the result obtained from multiplying
the value of the Fee Type Code in Column (		
(A)(B		(C)
FEE TYPE CODE FEE MU		DUE FOR FEE TYPE FOR FCC USE ONLY
(1) FEE TYPE CODE (If rec	dured) COD	E IN COLUMN (A)
M T R	\$ 2.	030.00
MIIK	, , , , , , , , , , , , , , , , , , ,	
		· · · · · · · · · · · · · · · · · · ·

SECTION II		en you are requesting concurrent action nore than one Fee Type Code.	ns which result in a
(A) FEE TYPE CODE	(B) FEE MULTIPLE (if required)	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
(2)		\$	
(3)		\$	
(4)		\$	
(6)		\$	
ADD ALL AMOUNTS SHOWN THROUGH (5), AND ENTER TH THIS AMOUNT SHOULD EQUA REMITTANCE.	IE TOTAL HERE.	TOTAL AMOUNT REMITTED WITH THIS APPLICATION OR FILING  \$ 2,030.00	FOR FCC USE ONLY

Approved by OMB 3060-0027

Federal Communications Commission Washington, D. C. 20554		FCC	301			3060-0027 Expires 2/28/92 le 25 for information
APPLICATION FOR	CONSTRUCTION	N PERMIT	FOR CO	OMMERCIAL BROADCAS	regarding p ST STATION	public burden estimate
For COMMISSION Fee Use Only	FEE NO:			For APPLICANT Fe		
	FEE TYPE			application?  If fee exempt (see indicate reason the	47 C.F.R. Sect	X Yes No ion 1.1112), one box):
	FEE AMT:			Noncommer Noncommer	cial education	
				FOR COMMISSION		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	ID SEQ:			FILE NO.	10001	1)1
Section I - GENERAL INFO	RMATION			31/3.791	30/4:	16.91
1. Name of Applicant				notices and communicat		ollowing
DIANE K. HITT			Name	at the address below:	Copy to:	
Ä.			В00'	TH, FRERET & IMLAY		
Street Address or P.O. Box		:		Address or P.O. Box		
18515 East Avenue H-6	State	ZIP Code	1920 City	N Street, N. W.,	Suite 150 State	ZIP Code
Lancaster		93535		ington	DC	20036
Telephone No. linclude Area Codel 1-805-727-1170	-			none No. Unclude Area Coo ) 296-9100	ie)	
			· ——			
2. This application is for:	L AM		X	FM	TV	
(a) Channel No. or Frequenc Ch. 228 93.5 MHz	У	(b) Princ	cipal	City		State
On: 220 )3:3 Int2		Com	munity	Rosamond		CA
(c) Check one of the followin	g boxes:				•	
X Application for NEW sta	tion					
MAJOR change in licen	sed facilities; ca	all sign:			•••••	
MINOR change in licen	sed facilities; ca	all sign:	······	interpolation of the second		
MINOR change in licen  MAJOR modification of	construction p	ermit; call :	sign:	ECEIVED		
File No. of construction	permit:			FEB 2 7 1991		
MINOR modification of	construction p	ermit; call :	sign:	Cygan Eddo		
File No. of construction	permit:	***************************************				
AMENDMENT to pending	application; Ap	plication f	ile numb	er:		
				y filed application. Sho		however, please
submit only Section I and those					ıformation.	<b>-</b>
8. Is this application mutually	exclusive with	a renewal			L	Yes X No
If Yes, state: Call lett	ers		Commui	nity of License	State	
	BPH		25MI		Sidle	
	ROSAMO	ND		C A		
	DIANE	K. HITT	-			FCC 301

Section II - LEGAL QUALIFICATIONS Name of Applicant	
DIANE K. HITT	
1. Applicant is: (check one box below)	
X Individual General partnership For-profit corporation	
Other Limited partnership Not-for-profit corporation	
2. If the applicant is an unincorporated association or a legal entity other than an individual, partnership, or corporation, describe in an Exhibit the nature of the application.	Exhibit No.
NOTE: The terms "applicant," "parties to this application," and "non-party equity owners in the applicant" are defined in the instructions for Section II of this form. Complete information as to each "party to this application" and each "non-party equity owner in the applicant" is required. If the applicant considers that to furnish complete information would pose an unreasonable burden, it may request that the Commission waive the strict terms of this requirement with appropriate justification.	
8. If the applicant is not an individual, provide the date and place of filing of the applicant's enabling charter (e.g., a limited partnership must identify its certificate of limited partnership and a corporation must identify its articles of incorporation by date and place of filing):	
Date Place	
In the event there is no requirement that the enabling charter be filed with the state, the applicant shall include the enabling charter in the applicant's public inspection file. If, in the case of a partnership, the enabling charter does not include the partnership agreement itself, the applicant shall include a copy of the agreement in the applicant's public inspection file.	
4. Are there any documents, instruments, contracts or understandings (written or oral), other than instruments identified in response to Question 3 above, relating to future ownership interests in the applicant, including but not limited to, insulated limited partnership shares, nonvoting stock interests, beneficial stock ownership interests, options, rights of first refusal, or debentures?	Yes X No
If Yes, submit as an Exhibit all such written documents, instruments, contracts, or understandings, and provide the particulars of any oral agreement.	Exhibit No.
5. Complete, if applicable, the following certifications:	
DOES NOT APPLY  (a) Applicant certifies that no limited partner will be involved in any material respect in the management or operation of the proposed station.	Yes No
If No, applicant must complete Question 6 below with respect to all limited partners actively involved in the media activities of the partnership.	
(b) Does any investment company (es defined in 15 U.S.C. Section 80 e-31, insurance company, or trust department of any bank have an aggregated holding of greater than 5% but less than 10% of the outstanding votes of the applicant?	Yes No
If Yes, applicant certifies that the entity holding such interest exercises no influence or control over the applicant, directly or indirectly, and has no representatives among the officers and directors of the applicant	Yes No

#### Section II - LEGAL QUALIFICATIONS (Page 2)

6. List the applicant, parties to the application and non-party equity owners in the applicant. Use one column for each individual or entity. Attach additional pages if necessary.

[Read carefully - The numbered items below refer to line numbers in the following table.]

- Name and residence of the applicant and, if applicable, its officers, directors, stockholders, or partners (if other than individual also show name, address and citizenship of natural person authorized to vote the stock). List the applicant first, officers next, then directors and, thereafter, remaining stockholders and partners.
- 2. Citizenship.
- 3. Office or directorship held.
- 4. Number of shares or nature of partnership interests.
- 5. Number of votes.

- 6. Percentage of votes.
- Other existing attributable interests in any broadcast station, including the nature and size of such interests.
- 8. All other ownership interests of 5% or more (whether or not attributable), as well as any corporate officership or directorship, in broadcast, cable, or newspaper entities in the same market or with overlapping signals in the same broadcast service, as described in 47 C.F.R. Section 78.3555 and 78.501, including the nature and size of such interests and the positions held.

1.	DIANE K. HITT 18515 East Avenue H-6 Lancaster, CA 93535	
2.	USA	
8.	Individual Applicant	
4.		
б.		
6.	<b>_</b> _	
7.	None	
8.	None	

#### Section II - LEGAL QUALIFICATIONS (Page 3)

7.	. Does the applicant, any party to the application or any non-party equity owner in the applicant have, or have they had, any interest in:	
	(a) a broadcast station, or pending broadcast station application before the Commission?	Yes X No
	(b) a broadcast application which has been dismissed with prejudice by the Commission?	Yes X No
	(c) a broadcast application which has been denied by the Commission?	Yes X No
	(d) a broadcast station, the license of which has been revoked?	Yes X No
	(e) a broadcast application in any pending or concluded Commission proceeding which left unresolved character issues against the applicant?	Yes X No
	If the answer to any of the questions in (a)-(e) above is Yes, state in an Exhibit the following information:	Exhibit No.
	<ul> <li>(1) Name of party having interest;</li> <li>(2) Nature of interest or connection, giving dates;</li> <li>(3) Call letters of stations or file number of application or docket; and</li> <li>(4) Location.</li> </ul>	
8.	(a) Are any of the parties to the application or non-party equity owners in the applicant related (as husband, wife, father, mother, brother, sister, son or daughter) to each other?	Yes No
	DOES NOT APPLY  (b) Does any member of the immediate family (i.e., husband, wife, father, mother, brother, sister, son or daughter) of any party to the application or non-party equity owner in the applicant have any interest in or connection with any other broadcast station, pending broadcast application or newspaper in the same area (see Section 73.3555(c)) or, in the case of a television station applicant only, a cable television system in the same area (see Section 76.501(e))?	Yes X No
	If the answer to (a) or (b) above is Yes, attach an Exhibit giving full disclosure concerning the persons involved, their relationship, the nature and extent of such interest or connection, the file number of such application, and the location of such station or proposed station.	Exhibit No.
9.	State in an Exhibit any interest the applicant or any party to this application proposes to divest in the event of a grant of this application.	Exhibit No.
	OTHER MASS MEDIA INTERESTS	
10.	(a) Do individuals or entities holding nonattributable interests of 5% or more in the applicant have an attributable ownership interest or corporate officership or directorship in a broadcast station, newspaper or CATV system in the same area? (See Instruction 8 to Section 11.)  THERE ARE NO SUCH INTERESTS	Yes No
	(b) Does any member of the immediate family (i.e., husband, wife, father, mother, brother, sister, son or daugther) of an individual holding a nonattributable interest of 5% or more in the applicant have any interest in or connection with any other broadcast station, pending broadcast application, newspaper in the same area (see Section 73.3555(c)), or, in the case of a television station applicant only, a cable television system in the same area (see Section 76.501(a))?	Yes X No
	If the answer to (a) and/or (b) above is Yes, attach an Exhibit giving a full disclosure concerning the persons involved, their relationship, the nature and extent of such interest or connection, the file number of such application, and the location of such station or proposed station.	Exhibit No.

#### Section II - LEGAL QUALIFICATIONS (Page 4)

and a description of the current status or disposition of the matter.

#### CITIZENSHIP AND OTHER STATUTORY REQUIREMENTS

11.	(a) Is the applicant in violation of the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of allens and foreign governments? (See Instruction & to Section 11.)	Yes X No
	(b) Will any funds, credits or other financial assistance for the construction, purchase or operation of the station(s) be provided by aliens, foreign entities, domestic entities controlled by aliens, or their agents?	Yes X No
	If the answer to (b) above is Yes, attach an Exhibit giving full disclosure concerning this assistance.	Exhibit No.
12.	(a) Has an adverse finding been made or an adverse final action been taken by any court or administrative body as to the applicant, any party to this application, or any non-party equity owner in the applicant in a civil or criminal proceeding brought under the provisions of any law related to the following:	
	Any felony; broadcast related antitrust or unfair competition; criminal fraud or fraud before another governmental unit; or discrimination?	Yes X No
	(b) Is there now pending in any court or administrative body any proceeding involving any of the matters referred to in (a) above?	Yes X No
	If the answer to (a) and/or (b) above is Yes, attach an Exhibit giving full disclosure concerning persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), a statement of the facts upon which the proceeding is or was based or the nature of the offense alleged or committed.	Exhibit No.

#### SECTION III - FINANCIAL QUALIFICATIONS

NOTE If this application is for a change in an operating facility do not fill out this section.

1.	The applicant	certifies the	at sufficient	net liquid	assets a	re on hand	i or that su	fficient f	`unds
	are available	from comm!	itted sources	to constru	et and	operate th	e requested	facilities	for
	three months	without rev	enue.						

X Yes No

2. State the total funds you estimate are necessary to construct and operate the requested facility for three months without revenue.

\$ 250,000.00

3. Identify each source of funds, including the name, address, and telephone number of the source (and a contact person if the source is an entity), the relationship (if any) of the source to the applicant, and the amount of funds to be supplied by each source.

Source of Funds (Name and Address)	Telephone Number	Relationship	Amount
DIANE K. HITT	(805) 727-1170	Applicant	\$ 50,000.00
BRUCE W. GARY	(805) 945-4413	Lender	\$200,000.00
	,	·	
			·
			i e
			T.

#### Section IV-A - PROGRAM SERVICE STATEMENT

Attach as an Exhibit, a brief description, in narrative form, of the planned programming service relating to the issues of public concern facing the proposed service area.

Exhibit No.

#### Section IV-B - INTEGRATION STATEMENT

Attach as an Exhibit the information required in 1, and 2 below.

Exhibit No. 2

- 1. List each principal of the applicant who, in the event of a grant of the application on a comparative basis proposes to participate in the management of the proposed facility and, with respect to each such principal, state whether he or she will work full-time (minimum 40 hours per week) or part-time (minimum 20 hours per week) and briefly describe the proposed position and duties.
- 2. State with respect to each principal identified in response to Item 1, above, whether the applicant will claim qualitative credit for any of the following enhancement factors:
  - (a) Minority Status
  - (b) Past Local Residence
    - If Yes, specify whether in the community of license or service area and the corresponding dates.
  - (c) Female Status
  - (d) Broadcast Experience
    - If Yes, list each employer and position and corresponding dates.
  - (e) Daytime Preference

### SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM 1. Does the applicant propose to employ five or more full-time employees? If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 898-A). SECTION VII - CERTIFICATIONS X Yes 1. Has or will the applicant comply with the public notice requirement of 47 C.F.R. Section 78.3580? X Yes 2. Has the applicant reasonable assurance, in good faith, that the site or structure proposed in Section V of this form, as the location of its transmitting antenna, will be available to the applicant for the applicant's intended purpose? Exhibit No. If No, attach as an Exhibit, a full explantion. 3. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure. RAY LAUGHINGHOUSE Name of Person Contacted (805) 945-1121 Telephone No. linciude area codel Person contacted: [check one box below] Owner's Agent X Owner Other (specify)

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

## WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S. CODE, TITLE 18, SECTION 1001.

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant	Signature
DIANE K. HITT	Diane X. With
Date	Title
2-20-91	Individual Applicant

## FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, analysts, engineers and applications examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 7i hours 45 minutes to 30i hours 30 minutes with an average of 118 hours 28 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Office of Managing Director, Washington, D.C. 20564, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0027), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

#### EXHIBIT 1

Applicant will determine the issues of public concern facing Rosamond and the surrounding area and will air programs and PSAs responsive to these concerns, all on a regular basis.

The proposed musical format will be "light classics" and local news, weather and sports will be broadcast in the daily schedule.

#### EXHIBIT 2

Applicant Diane Hitt will work full time at the proposed station, at least 40 hours per week, as general manager. She will perform all tasks and assume all responsibilities normally associated with a station of the size contemplated, including supervision of all employees, hiring and firing, paying obligations and establishing general station policy.

Ms. Hitt resides in the proposed service area and has for six years.

She does not claim past broadcast experience, minority status, or a daytimer preference, but does claim preference for female status.

			FOR	COMMIS	SION USE ONLY			
Sandian.	V-B - EN BROADCACT EL	NCINEEDING DATA	File	No.				
Section	V-B - FM BROADCAST EN	NGINEERING DATA	ASB	ASB Referral Date				
			Refe	erred by				
Name of App	DIANE K. HIT			•				
Call letters / //		Is this application	an balna Mia	d in nor	norm to a W - C			
·		window?  If Yes, specify	-		ponse to a X Yes No			
Purpose of A	oplication: (check apprepriate be		7					
X Const	ruct a new (main) facility	. [	Construct	a new	auxiliary facility			
Modif	y existing construction perm	it for main	Modify e	xisting (	construction permit for auxiliary			
Modif	y licensed main facility		Modify 1	censed a	auxiliary facility			
if purpose is affected.	to modify, indicate below the	nature of change(s)	and specify	the file	number(s) of the authorizations			
Anter	na supporting-structure heig	nt [	Effective	radiated	d power.			
Anter	na height above average ter	rain [	Frequenc	У				
Anter	na location		Class					
Main	Studio location	. [	Other (See	mmarizo b.	riefly)			
File Numbe	er(s)							
1. Allocation:			·					
	T		· · · · · · · · · · · · · · · · · · ·		Class (check only one box below)			
Channel No.	City	community to be ser		State				
228	Rosamond	County Kern		CA				
			1	·	]			
2 Exact location	on of antenna.							
a) Specify ad	dress, city, county and state. I	if no address, specify	distance an	d bearin	g relative to the nearest town or			
landmark.	5.0 kilometers no	rth, northwes	t of Wil	Low S	prings, California			
b) Coornantie								
					rray, specify coordinates of center tude where applicable; otherwise,			
	ude or West Longitude will h		attitude of Ear	st rough	tude where applicable, otherwise,			
Latitude	34 55	11 " Lo	ngitude	118	° 19 ' 01 "			
				<del></del>				
R is the support application(	rting structure the same as these.	hat of another statio	n(s) or propos	sed in a	nother pending Yes X No			
If Yes, give	call letter(s) or file number(	s) or both.	DNA					
If proposal	involves a change in height	of an existing struc	ture, specify	existing	; height above ground level includin			
antenna, al	l other appurtenances, and lie	ghting, if any.	DNA	J				
		<b>■</b>	- UNA					

If Yes, list	old coordinates.							•
Latitude	0		•	Longitude	·		•	
If Yes, give	A been notified of the date and office who ion, if available.  18-FEB-91	ere notice wa			xhlbit a ∞r Pacifi		Exh	/es No
6. List all land	ding areas within 8 l	cm of antenna	a site. Specif	y distance an	nd bearing f	rom struc	ture to neares	t point of t
	Landing Area		Dist	ance (km)		Bea	aring (degrees	True)
(a) Lloy	d's Landing	_	•	2.15		•	137.0°	<del></del>
. (a) Elevation	: Ite the nearest meteri							
(1) of sit	de above mean sea le	vel;					864.1	meters
	ne top of supporting a rtenances, and lighti		_	cluding ante	nna, all oth	er	169.8	_ meters
(8) of th	ne top of supporting	structure abov	ve mean sea	level [(a)(1)	+ (a)(2)]		1033.9	_ meters
(b) Height of	radiation center: (t	e the nearest m	eteri H = H	orizontal; V -	Vertical			
(1) above	e ground						167.1	_ meters (H
•							167.1	_ meters (\
(2) abov	e mean sea level [	(aX1) + (bX1)]					1031.2	_ meters (H
						,	1031.2	_ meters (V
(3) abov	e average terrain						91.4	_ meters (H
							91.4	_ meters (V
in Question	n Exhibit sketch(es) o a 7 above, except item ights and orientations	7(b)(3). If mo	unted on an	AM direction	al-array el	ement,		ibit No. -3
). Effective Ra	adiated Power:							
	the horizontal plane		3.0	kw (H*)	3.0	kw (V*)		
(b) Is beam	tilt proposed?	<u></u>				-	Y	es X No
	pecify maximum ERF elevational plot of r						D	ibit No. NA
#Polerize		-	DNA	_ kw (H*)	DNA	. kw (V*)		

10. Is a directional antenna proposed?	Yes X No
If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.	Exhibit No.
il. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 78.315(a) and (b)?	X Yes No
If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service.	Exhibit No.
12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?	X Yes No
If No. attach as an Exhibit justification pursuant to 47 C.F.R. Section 78.1125.	Exhibit No. DNA
13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?	Yes X No
(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?	X Yes No
(c) if the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.	Exhibit No. E-1
(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.	Exhibit No.
(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:	Exhibit No. DNA
<ol> <li>Protected and interfering contours, in all directions (360°), for the proposed operation.</li> <li>Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.</li> </ol>	
<ul> <li>(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.</li> <li>(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.</li> <li>(5) The official title(s) of the map(s) used in the exhibits(s).</li> </ul>	
14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast lescept citizens bend or eneteral radio stations, or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas, or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?	Yes X No
If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to redic receivers in use	Exhibit No.

prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(e) and 73.318.)

15.	Attach as an Exhibit a 75 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.	No.
16.	Attach as an Exhibit (nome the source) a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:	No.
	(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;	
	(b) the 616 mV/m and 1 mV/m predicted contours, and	
	(c) the legal boundaries of the principal community to be served.	r
17.	Specify area in square kilometers (1 sq. mi 259 sq. km) and population (latest census) within the predicted 1 mV/m contour.	
	Area 2,519 sq. km. Population 73,934 [1980 U.S. Census]	
18.	For an application involving an auxiliary facility only, attach as an Exhibit a map (Sectional Aeronautical thank or equivalent) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:	Jo.
	(a) the proposed auxiliary 1 mV/m contour; and	
	(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.	
19.	Terrain and coverage data Ito be calculated in accordance with 47 C.F.R. Section 73.3131	
	Source of terrain data: Icheck only one box below?	
	X Linearly interpolated 30-second database 75 minute topographic map	
	(Source:NGDC 30-second point elevation database	٠
	Other (briefly susserize)	

	Height of radiation center above average	Predicted Distances		
Radial bearing (degrees True)	elevation of radial from 3 to 15 km (meters)	To the 8.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)	
145.6	258.3	21.94	37,33	
0	-24.6	7,48	13,31	
45	131,8	15,50	27,29	
90	194.7	19.16	32.77	
135	262.8	22.12	37.61	
180	264.1	22.17	37.68	
225	217.1	20.18	34.59	
270	39.4	8.51	15.02	
315	-354.6	7.48	13.31	

<sup>\*</sup>Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20.	Environmental	Statement/See	47 C F R	Section	1 1101	et seal	,

Would a Commission grant of this application come within Section 11307 of the FCC Rules, such that it may have a significant environmental impact?	Yes X No
If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.	Exhibit No.
If No, explain briefly why not. See Exhibits E-1, E-8 and E-11	

#### CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed)  Lawrence 'L, Morton, P.E.	Relationship to Applicant (e.g., Consulting Engineer)  Consulting Engineer
Signature Mhm	Address (Include ZIP Code) 1231 Mesa Oaks Lane Mesa Oaks, CA 93436-2309
Date 18-FEB-91	Telephone No. (Include Area Code) 805 733-4275

# ENGINEERING EXHIBITS IN SUPPORT OF APPLICATION FOR CONSTRUCTION PERMIT

February 18, 1991

Diane K. Hitt FM Channel 228A = 93.5 Megahertz Rosamond, California

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E-2	FAA Form 7460-1, Notice of Proposed Construction
E-3	Vertical Plan Sketch of Antenna Supporting Structure
E-4	Full-Size 7.5 Minute Topographic Map of Transmitter Site and Vicinity
E-5	Map of Proposed Coverage Contours
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## EXHIBIT E-1 ENGINEERING STATEMENT

The information and data contained within these Engineering Exhibits were prepared on behalf of Diane K. Hitt, in support of an Application for Construction Permit to build a new Class A FM broadcast station on Channel 228, 93.5 Megahertz, to serve the community of Rosamond, California.

#### I. ANTENNA AND TRANSMITTER LOCATION

The proposed transmitter site is located 5.0 kilometers (3.1 miles) north, northwest from the center of Willow Creek, California, and 15.4 kilometers (9.6 miles) from the reference coordinates of Rosamond in a direction of 295.6 degrees True North. The site is located in an unincorporated area of Kern County. The ground elevation is 864.1 meters (2835 feet) AMSL.

The geographical coordinates of the proposed site are:

North Latitude: 34 degrees, 55 minutes, 11 seconds West Longitude: 118 degrees, 19 minutes, 01 seconds

There are no authorized FM nor full service television stations within 10 kilometers (6.2 miles) of the proposed site nor AM broadcast stations within 3.2 kilometers (2.0 miles).

The topographic data of exhibit E-6D along the 115.6 degree bearing shows the relationship between the site and the U.S.G.S. centroid geographic coordinates for the community of Rosamond.

The proposed supporting structure will be a guyed steel tower 169.8 meters (557 feet) in height including top-mounted lighting beacon. The antenna radiation center will be 167.1 meters (548.2 feet) above ground. Exhibit E-3 shows the vertical plan sketch of the proposed tower and antenna configuration. At the specified antenna height, by methods later described, the height above average terrain was determined to be 91.4 meters (299.7 feet).

The proposed transmitter site is located 287 kilometers (178 miles) from the nearest point on the U.S.-Mexican Border and, therefore, falls under the jurisdiction of the Agreement Between The United States of America and The United Mexican States Concerning Frequency Modulation Broadcasting In The 88 To 108 MHz Band of 1972. According to the curves of Annex IV within the Agreement, the maximum permissible HAAT for a Class A station operating at full 3.0 kilowatts is 300 feet. Since the proposed HAAT is 91.4 meters (299.7 feet), an effective radiated power of 3.0 kilowatts, is herein proposed.

#### II. TECHNICAL PROPOSAL

The applicant proposes to utilize a Harris Corporation Model HT-3.5FM FM transmitter with a rated maximum power output of 4 kW. An Electronics Research, Incorporated, Model 200-2AE two-bay circularly-polarized, nondirectional FM antenna will be employed. This antenna has a power gain of -0.013 dB  $(0.9971 A_p)$ . To produce an effective radiated power of 3.0 kilowatts, an antenna input power of 3.0087 kW is required.

Andrew Corporation type HJ8B-50 3" air-dielectric Heliax cable is proposed with a total line length of 178.3 meters (585 feet). The attenuation through this line at the operating frequency is 0.1345 dB per 100 feet.

It is proposed to operate the Harris Corporation transmitter with a power output of 3.6065 kW. With a loss of 0.5978 kW (0.7871 dB) in the transmission line, the resultant line efficiency is 83.4246 percent. Coupled with the above specified antenna gain, this combination will produce an ERP of 3.0 kW.

#### III. PREDICTED COVERAGE CONTOURS

The locations of the predicted service contours shown in exhibits E-5 and E-10 were computed according to computer methods outlined in F.C.C. publication PB-249144, <u>Field Strength Calculations for TV And FM Broadcasting</u>. The computer methods involve the use of digitized data taken directly from the graph of §73.333 Figure 1. Intermediate values are obtained through the use of bivariate interpolation techniques for surface fitting.

The average elevations from 3 to 16 kilometers (2 to 10 miles) on radials for each 45 degrees of azimuth starting with True North from the antenna were determined from topographic data obtained from the computerized 30-second point elevation database version of <u>Elevation Data For North America</u>, available from the Department of Commerce, National Geophysical Data Center, National Oceanic and Atmospheric Administration. A total of 131 points along each radial were linearly interpolated according to the requirements of §73.312(d).

The height of the antenna radiation center above average terrain was determined from these data. Finally, the height above average terrain (HAAT) was computed by averaging the radial elevations below the antenna radiation center in accordance with §73.313(d).

Exhibit E-10 is a cartographic representation of the proposed 70 and 60 dB $\mu$  F(50,50) contours overlaid with terrain shielding lines. The distances to the contours were based on the antenna radiation center above average terrain elevations from 3 to 16 kilometers (2 to 10 miles) on 360 radials spaced at one degree azimuthal intervals, as extracted from the aforementioned terrain database.

#### IV. BOUNDARIES OF ROSAMOND

Rosamond is an unincorporated area within Kern County and does not have clearly defined boundaries. The U.S. post offices at Edwards Air Force Base and Rosamond were contacted and supplied postal boundaries for the area served by the Rosamond Post Office. The boundaries given by both post offices were identical so it is believed that these boundaries represent the most accurate determination of the unincorporated area of Rosamond.

The locations of the boundaries of Rosamond were carefully digitized from U.S.G.S. 7.5 minute topographic maps of the area for inclusion on the computer-drawn coverage maps of exhibits E-5 and E-10.

#### V. NATURE OF TERRAIN WITHIN ROSAMOND

Several potential transmitter sites were studied in and around the Rosamond area in an effort to secure a centrally located site which would maximize coverage of Rosamond and the surrounding areas. The postal boundaries of Rosamond extend over a considerable area which has an abundance of small hills. Exhibit E-6D is a terrain profile graph depicting the intervening terrain between the proposed transmitter site and the U.S.G.S. geographical coordinates of the reference location of Rosamond.

Of the sites studied by the applicant, none could be found from which the entire community boundaries could be served without terrain shielding occurring to portions of the area. Exhibit E-10 shows that small portions of Rosamond are not within line-of-sight from the proposed antenna radiation center.

The proposed transmitter site was chosen in order to maximize efficient use of the limited broadcast spectrum. Due to the nature of the terrain in the region, this small amount of shadowing was unavoidable consistent with efficient spectrum utilization. However, since only a small portion of the principal community is not within line-of-sight from the proposed antenna radiation center, and since the 70 dB $\mu$  contour will more than encompass the entire community, it is submitted that the applicant is in compliance with §73.315(b) relative to selection of antenna sites in order to avoid "major obstruction[s]." See e.g., Rush County Broadcasting Co., Inc., 26 FCC2d 480, 482 (1970); Jesse Willard Shirley, 36 FCC2d 127, 129 (1972).

In the unlikely event that a waiver of the Rule is deemed necessary, the applicant hereby respectfully requests same. Compare A.B.C.D. Broadcasting Company, 2 FCC Rcd 6551, 6552 (HDO 1987) (Waiver of §73.315(a) of the Commission's Rules requiring a 3.16 mV/m signal over the entire community of license is not necessary where that contour covers more than 80% of the community).

#### VI. POPULATION AND AREA CALCULATIONS

The 60 dB $\mu$  (1.0 mV/m) contour based on nine bearings was decomposed and described mathematically by a polygonal area which was used in conjunction with the computerized

Master Area Reference File 1980 Census database made available by the U.S. Department of Commerce, Bureau Of The Census, to determine the population residing within the predicted 60 dB $\mu$  contour.

The smallest census levels considered within Minor Civil Divisions and Census County Divisions include Tracts and Block Groups within tracted and block-numbered areas, Enumeration Districts within tracted and partially block-numbered or nonblock numbered areas, and Block Numbering Areas within areas not tracted. When the centroid coordinates fell within the predicted contour, the entire population was considered to reside within the contour. When the centroid fell outside the contour, no portion of the population was counted.

The land area within the 60 dB $\mu$  contour was computed using numerical integration employing the computed distances to the contour along the aforementioned bearings. Distances to intermediate azimuths of one degree were obtained mathematically by piecewise third-order polynomial approximations.

#### VII. LONGLEY-RICE FIELD STRENGTH PREDICTIONS

Exhibits E-7A through E-7I are a series of graphs depicting the expected F(50,50) signal in dB $\mu$  as a function of distance along each of the nine radials shown in exhibits E-6A through E-6I.

To determine the signal strength at each point along a radial, the vertical plane radiation characteristics of the two-bay  $\lambda$ -spaced-element FM broadcast antenna with 0.0 degrees beam tilt and 0.0 percent null fill were computed at each vertical depression angle from horizontal. The vertical angle was obtained by assuming a transmitting antenna radiation center of 1031.2 meters (3383.2 feet) above mean sea level, and a receiving antenna height of 9 meters (30 feet) above ground at each point considered, and the horizontal distance to such point.

In cases where a point was shielded from direct line-of-sight from the transmitting antenna, the vertical angle was taken to be the angle to the top of the highest apparent obstruction between the transmitting antenna and the point of interest assuming an effective earth radius 4/3 that of the actual radius to account for atmospheric refraction.

The field strength at each point was then computed using a computerized implementation of the tropospheric radio propagation model developed at the Institute for Telecommunications Sciences and Aeronomy, Environmental Science Services Administration, National Bureau of Standards, by P. L. Rice, Anita G. Longley, Kenneth A. Norton and A. P. Barsis, and published for the first time in 1965. This model, known as the Longley-Rice propagation model is also commonly referred to as "Tech Note 101".

The model depends on propagation path geometry and atmospheric refractivity near the surface of the earth. Calculations of expected transmission loss for paths within the radio horizon are based on geometric-optics ray theory. For paths with a common horizon, Fresnel-Kirchoff knife-edge diffraction theory is applied. For double horizon paths that extend only slightly over